



***Charging Ahead
into the
Next Millennium***

DARPATech** '99**

Denver • June 7-10, 1999





ISO

Advanced Logistics Project

Dr. Todd Carrico
Program Manager

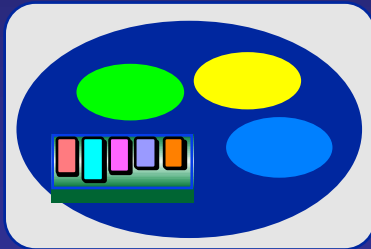


Advanced Logistics Project *ISO*

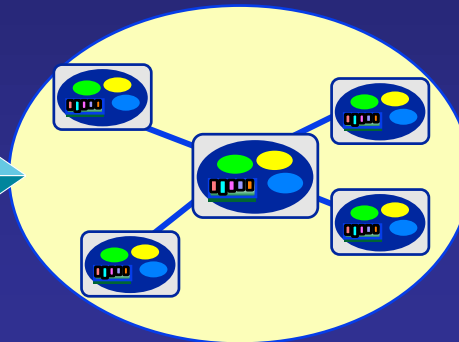
Getting Control of the Logistics Pipeline...

- Planning, Managing, and Providing Visibility
- All Echelons, All Phases of Operations
- Continuous Planning and Execution

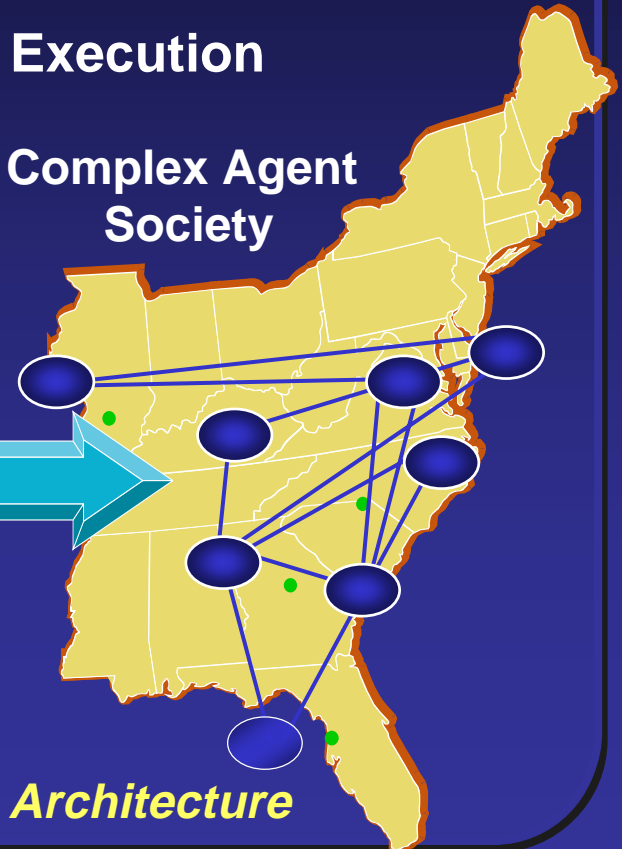
Basic Building Block
Agent “Cluster”



Agent Community



Complex Agent
Society

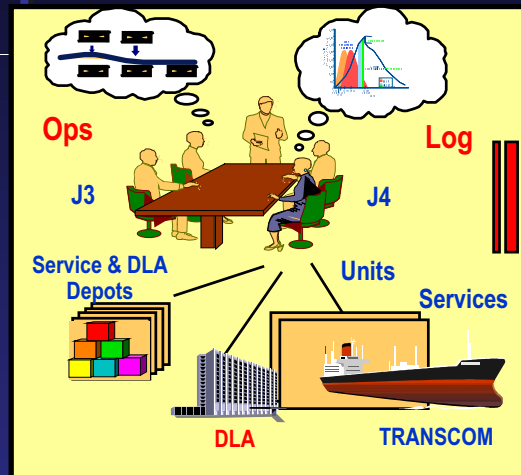


First Large Scale Distributed Agent-Based Architecture

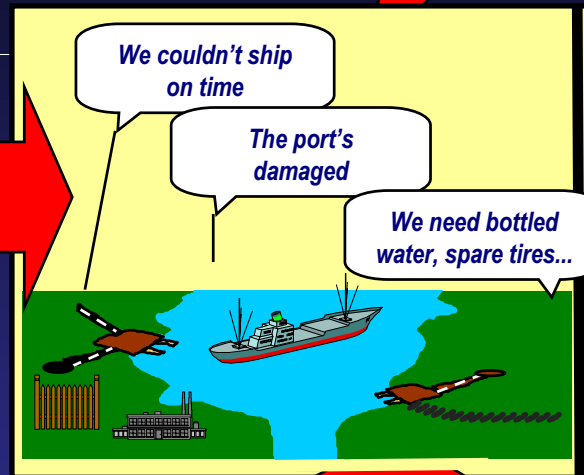


ALP Operational Vision

ISO



Rapid Planning



Execution Monitoring



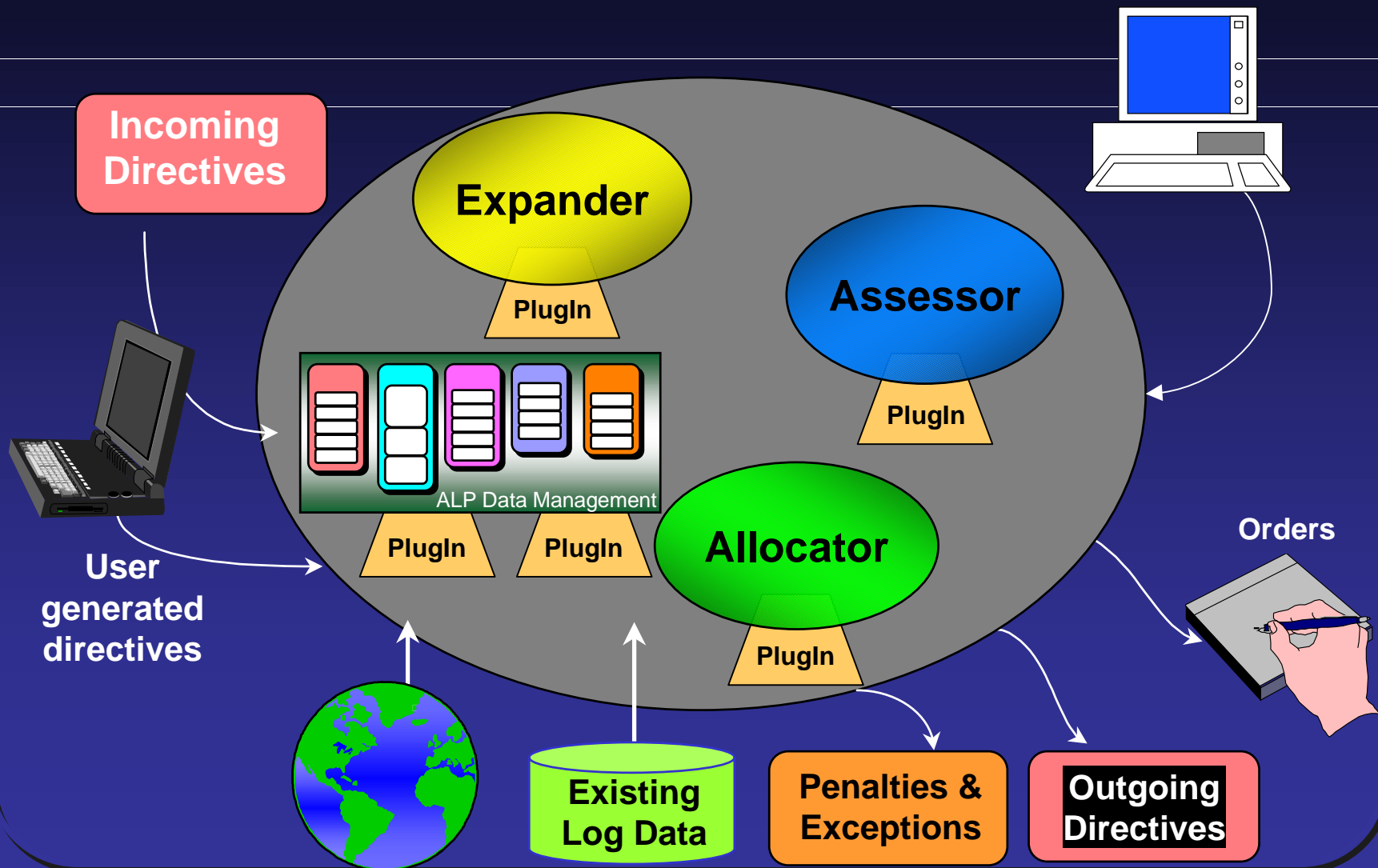
Continuous Replanning

- Continuous System
- Planning and Execution
- Extreme Detail



ALP Agent Cluster

ISO

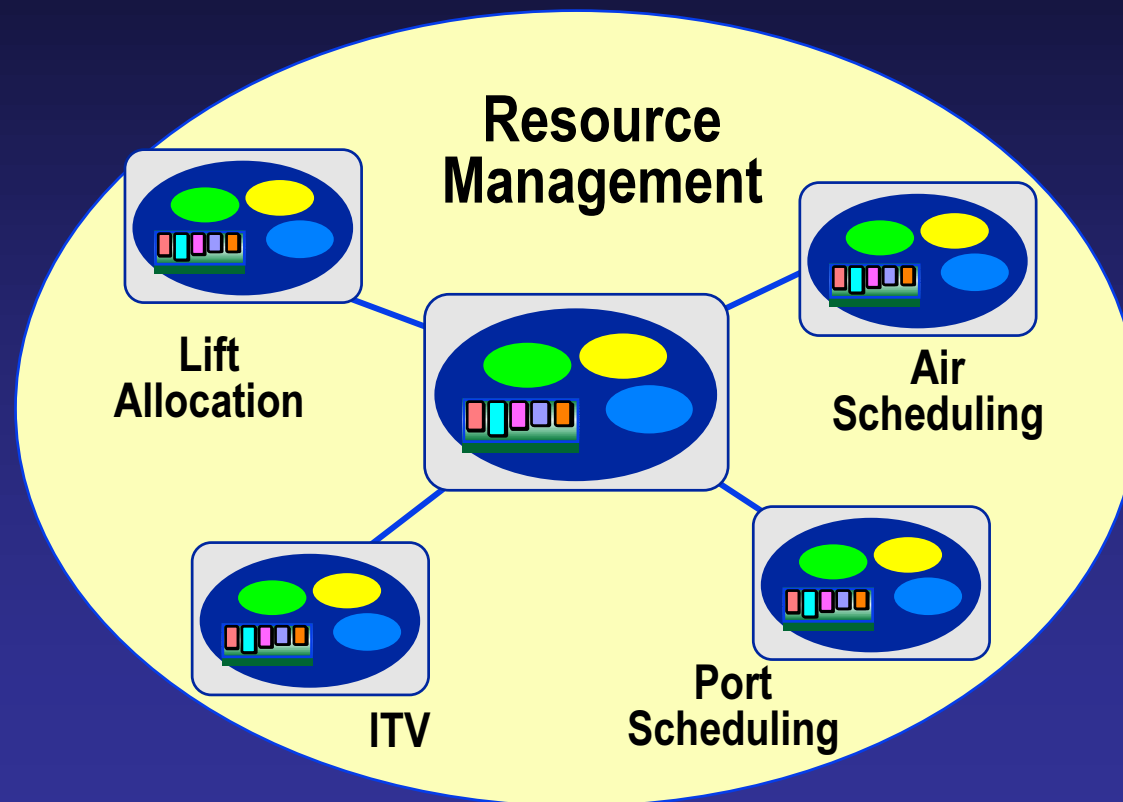




An ALP Community

ISO

Organizational Logistics Business Process



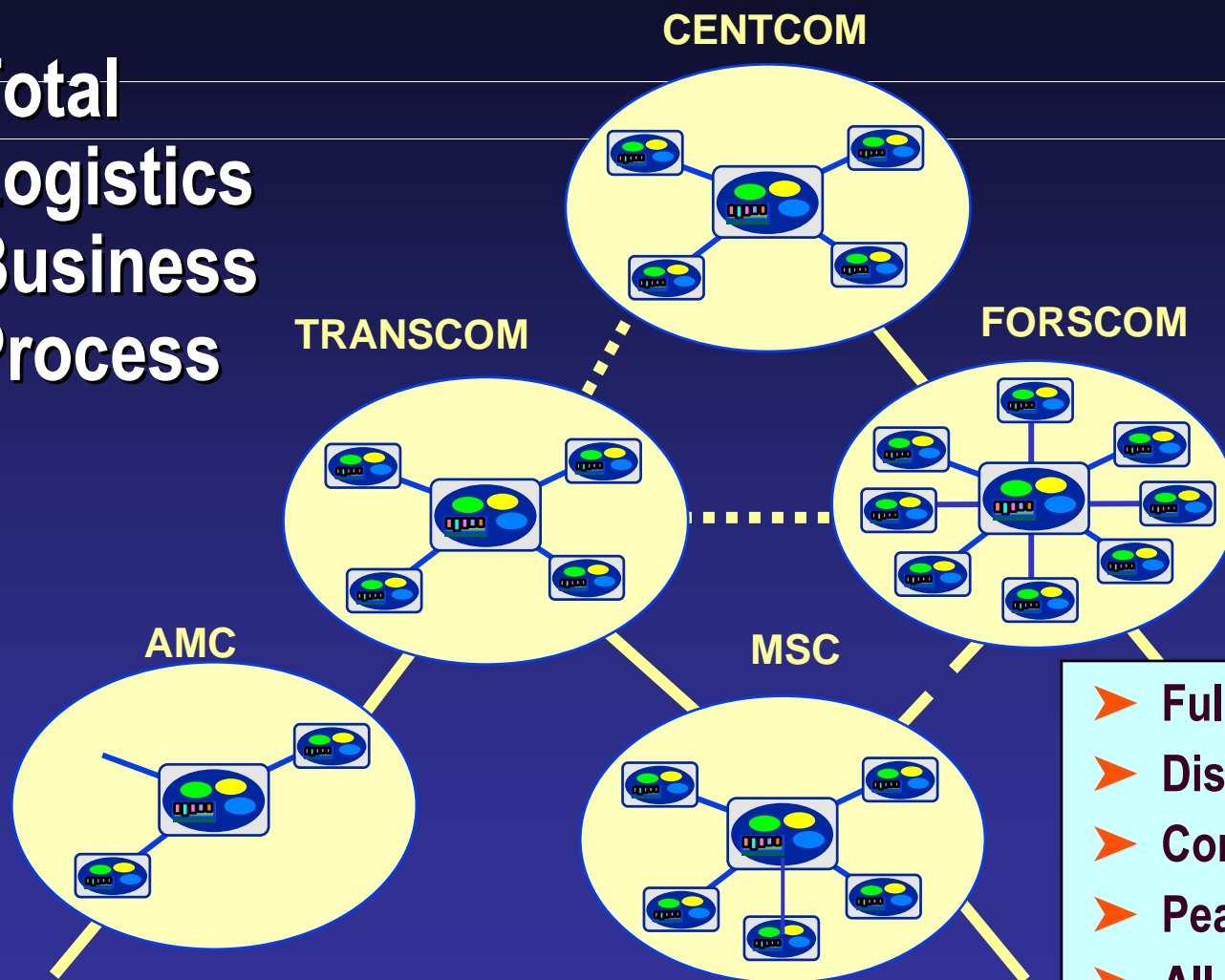
US Transportation Command



The ALP Society

ISO

Total
Logistics
Business
Process



- Fully automated
- Distributed
- Continuous
- Peace and War
- All Echelons



Jan 99 Demo (FY98 Work)

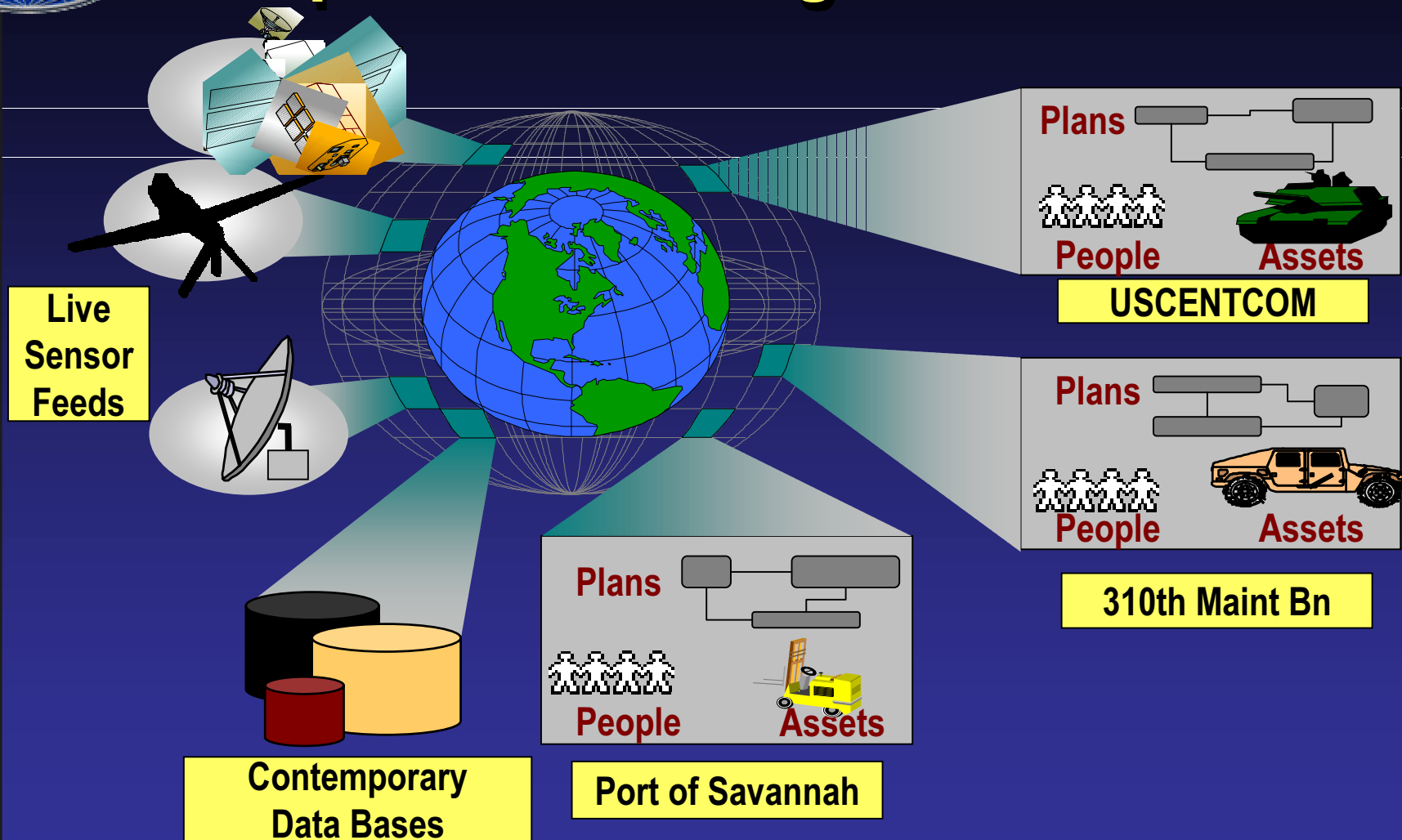
ISO

- **Distributed logistics planning & execution system**
 - ◆ 5 Geographic sites
 - ◆ Automatic information sharing using the Internet
- **Automatic generation of a detailed Logistics Plan**
 - ◆ Bottom-up demand generation
 - 70+ units and organizations
 - 800+ distinct processes
 - Unit level equipment item detail
 - ◆ Live database access (JTAV, GTN, GDSS)
 - ◆ Sustainment Support & Transportation schedules for
 - 10,000+ PAX
 - 2836 of the division's 8104 vehicles
 - 36 Tactical aircraft and support equipment
 - ◆ Less than an hour



Comprehensive Logistics Picture

ISO



Integrates organizational plans, assets, real-world sensor data and databases

A Complete Architecture

- Automation
- Connectivity
- Flexibility
- Interoperability
- Evolvability

